## **CLAIMS**

## What is claimed is:

1	1.	A method for managing a communications session with a device, the method
2		comprising the computer-implemented steps of:
3		establishing, with the device, a communications session that supports a first quality of
4		service level;
5		receiving a request for a service associated with the device;
6		determining, based upon the request for the service and policy criteria, a second
7		quality of service level to be supported by the communications session for the
8		device; and
9		modifying the communications session by causing a layer-2 change in a
10		communications link used for the communications session, so that the
11		communications session for the device supports the second quality of service
12		level.
1	2.	The method as recited in Claim 1, wherein:
2		the request for the service is received from a layer-2 gateway; and
3		causing a layer-2 change in a communications link used for the communications
4		session, so that the communications session for the device supports the second
5		quality of service level includes signaling the layer-2 gateway to change the
6		communications session with the device to support the second quality of
7		service level.
1	3.	The method as recited in Claim 1, wherein causing a layer-2 change in a
2		communications link used for the communications session, so that the

3	)	communications session for the device supports the second quality of service level,
4	ŀ	includes causing the modification of session context data at a layer-2 gateway.
1	4.	The method as recited in Claim 1, wherein causing a layer-2 change in a
2	2	communications link used for the communications session, so that the
3	3	communications session for the device supports the second quality of service level,
4	1	includes generating and sending to a layer-2 gateway an AAA Change of
5	5	Authorization (CoA) Request command that specifies a quality of service profile for
6	,	the second quality of service level.
1	5.	The method as recited in Claim 1, wherein the first and second quality of service
2	?	levels each specifies an amount of bandwidth to be allocated to the device.
1	6.	The method as recited in Claim 1, wherein the device is a wireless device.
1	7.	The method as recited in Claim 1, further comprising the computer-implemented
2	2	steps of:
3	<b>;</b>	receiving, from a first application server, first quality of service data that specifies the
4		second quality of service level;
5	;	receiving, from a second application server, second quality of service data that
6	;	specifies a third quality of service level; and
7	•	modifying, based upon the first quality of service data and the second quality of
8	}	service data, the communications session by causing a layer-2 change in a
9	)	communications link used for the communications session, so that the
10	•	communications session for the device supports a quality of service level
11		other than the first quality of service level.

1 8. An apparatus for managing a communications session with a device, the apparatus 2 being configured to: establish, with the device, a communications session that supports a first quality of 3 4 service level; receive a request for a service associated with the device; 5 6 determine, based upon the request for the service and policy criteria, a second quality 7 of service level to be supported by the communications session for the device; 8 and 9 modify the communications session by causing a layer-2 change in a communications 10 link used for the communications session, so that the communications session 11 for the device supports the second quality of service level. 1 9. The apparatus as recited in Claim 8, wherein: 2 the request for the service is received from a layer-2 gateway; and 3 the apparatus is further configured to cause a layer-2 change in a communications 4 link used for the communications session, so that the communications session 5 for the device supports the second quality of service level by signaling the 6 layer-2 gateway to change the communications session with the device to 7 support the second quality of service level. 1 10. The apparatus as recited in Claim 8, wherein the apparatus is further configured to 2 cause the modification of session context data at a layer-2 gateway. 1 11. The apparatus as recited in Claim 8, wherein the apparatus is further configured to 2 generate and send to a layer-2 gateway a AAA Change of Authorization (CoA)

3		Request command that specifies a quality of service profile for the second quality of
4		service level.
1	12.	The apparatus as recited in Claim 8, wherein the first and second quality of service
2		levels each specifies an amount of bandwidth to be allocated to the device.
1	13.	The apparatus as recited in Claim 8, wherein the device is a wireless device.
1	14.	The apparatus as recited in Claim 8, wherein the apparatus is further configured to:
2		receive, from a first application server, first quality of service data that specifies the
3		second quality of service level;
4		receive, from a second application server, second quality of service data that specifies
5		a third quality of service level; and
6		modify, based upon the first quality of service data and the second quality of service
7		data, the communications session by causing a layer-2 change in a
8		communications link used for the communications session, so that the
9		communications session for the device supports a quality of service level
10		other than the first quality of service level.
1	15.	An apparatus for managing a communications session with a device, the apparatus
2		comprising:
3		means for establishing, with the device, a communications session that supports a first
4		quality of service level;
5		means for receiving a request for a service associated with the device;
6		means for determining, based upon the request for the service and policy criteria, a
7		second quality of service level to be supported by the communications session
8		for the device; and

9		means for modifying the communications session by causing a layer-2 change in a
10		communications link used for the communications session, so that the
11		communications session for the device supports the second quality of service
12		level.
1	16.	The apparatus as recited in Claim 15, wherein:
2		the request for the service is received from a layer-2 gateway; and
3		the apparatus further comprises means for causing a layer-2 change in a
4		communications link used for the communications session, so that the
5		communications session for the device supports the second quality of service
6		level includes signaling the layer-2 gateway to change the communications
7		session with the device to support the second quality of service level.
1	17.	The apparatus as recited in Claim 15, wherein the apparatus further comprises means
2		for causing the modification of session context data at a layer-2 gateway.
1	18.	The apparatus as recited in Claim 15, wherein the apparatus further comprises means
2		for generating and sending to a layer-2 gateway a Change of Filters (CoA) Request
3		command that specifies a quality of service profile for the second quality of service
4		level.
1	19.	The apparatus as recited in Claim 18, wherein the apparatus further comprises means
2		for specifying the quality of service profile for the second quality of service level
3		using a vendor-specific attribute containing the the 3 <sup>rd</sup> Generation Partnership Project
4		3GPP-Negotiated-OoS attribute

1	20.	The apparatus as recited in Claim 15, wherein the first and second quality of service
2		levels each specifies an amount of bandwidth to be allocated to the device.
1	21.	The apparatus as recited in Claim 15, wherein the device is a wireless device.
1	22.	The apparatus as recited in Claim 15, further comprising means for:
2		receiving, from a first application server, first quality of service data that specifies the
3		second quality of service level;
4		receiving, from a second application server, second quality of service data that
5		specifies a third quality of service level; and
6		modifying, based upon the first quality of service data and the second quality of
7		service data, the communications session by causing a layer-2 change in a
8		communications link used for the communications session, so that the
9		communications session for the device supports a quality of service level

other than the first quality of service level.

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